

Regulators are designed to control and reduce high gas pressure from a cylinder, in one or two stages, to the working pressure of the equipment using it. As with all high-pressure equipment, regulators are intended to be used only in accordance with the instructions provided. The equipment must be checked periodically and any defective parts that are broken, missing, worn, distorted, or contaminated must be replaced immediately. The regulator should never be subjected to an inlet pressure greater than its rated inlet pressure as shown on the regulator body. These regulators are not intended to be used with oxygen gas, as any oil-bearing materials or other combustibles may ignite readily in the presence of oxygen. A regulator that has loose or damaged parts or is in questionable condition should never be pressurized. Never loosen a connection or attempt to remove a part until gas pressure has been completely removed. Under pressure, gas can dangerously propel a loose part. A regulator relief valve, if present, is designed to protect the regulator only, and nothing else. Always ensure that any equipment connected to the regulator outlet is provided with separate relief devices to protect downstream equipment against any possible overpressure. After installation, periodically check the regulator and all connections for leaks by brushing on an approved leak detection solution. Bubbles indicate leakage.

No repair should ever be undertaken by anyone other than a qualified technician. Below is a listing of symptoms that indicate regulator malfunctions requiring repair:

1. Gas leakage at the regulator outlet when the adjusting screw is completely released.
2. With no flow through the system (all valves closed and the adjusting screw in), the working pressure increases steadily above the set pressure.
3. Gas leakage from spring case near the adjusting screw.
4. Gas leakage from any joint or relief valve.
5. Excessive drop in working pressure with regulator flow open.
6. Gauge(s) will not return to zero or gives inconsistent repeat readings.

With proper use and regular maintenance, these regulators should provide years of safe and dependable usage.

LOW-PRESSURE CONCOA/AIRCO REGULATOR (805-1179), 1/4" NPT, 1/8" GAUGE #143-00



#143-00 Low-Pressure CONCOA Regulator

HIGH-PRESSURE CONCOA/AIRCO REGULATOR (805-1140), 1/4" NPT, 1/8" GAUGE #170-08

Components (both low and high-pressure regulators):

- #143-00-1 Diaphragm (830-0342)
- #143-00-2 Adjusting Screw for 143-00 Regulator (830-1197)
- #143-00-3 Spring Button
- #143-00-4 Diaphragm Plate (830-0340)
- #143-00-5 Slip Ring (830-0341)
- #143-00-6 Ball, 1/4", Stainless Steel
- #143-00-7 Thrust Plate (830-0344)
- #143-00-8 Teflon® Seat (830-3904)
- #143-00-9 O-ring for Seat Assembly (830-2627)
- #143-00-10 Screen (830-4052)
- #143-00-11 Glasswool Filter (830-4060)
- #143-00-12 Spring
- #170-08-1 Adjusting Screw for 170-08 Regulator



#170-08 High-Pressure CONCOA Regulator

CONCOA/AIRCO REGULATOR REPAIR KIT #143-07

For #143-00 and 170-08 regulators.



#143-07 CONCOA Repair Kit